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COMMENTS:

On the title page, add:

Assignee: Fujitsu Limited, Kawasaki, Japan

On the title page, under the heading "Other References" insert:

Nagahata, Akihiro et al., "Present and future of sealing and exhausting process in plasma display panel manufacturing", Technical Report of Plasma Display, April 1999, pages 45-51 (English translation of relevant portions).

# **Applicant Proof Copy** Nakatake et al.

Application No.: 09/339,199  
Response Date: Oct 7, 2002

## (54) **MANUFACTURING METHOD OF PLASMA DISPLAY PANELS**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(58) Field of Search ..... 445/24, 25, 40, 445/43

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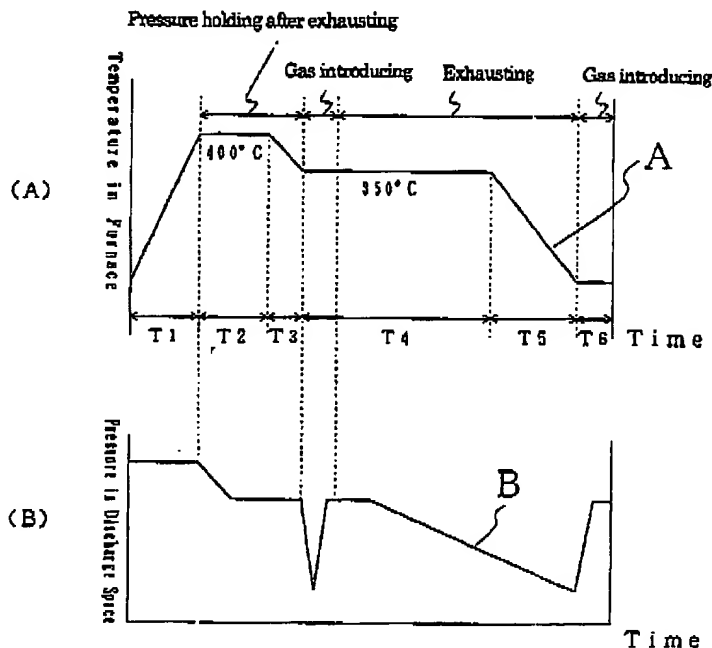
\* cited by examiner

Primary Examiner—Kenneth J. Ramsey

### (57) **ABSTRACT**

In accordance with the present invention, there is provided a method of manufacturing a plasma display panel of the type which includes a discharge space defined between a pair of substrates and sealed by a sealant, the method comprising a first step of forming the sealant on at least one of the substrates and stacking one substrate on the other through the intermediation of the sealant, a second step of reducing the pressure in the space existing between the pair of substrates due to the presence of the sealant and melting the sealant by heating, a third step of curing the sealant to thereby firmly attach the pair of substrates to each other and define a predetermined discharge space, a fourth step of removing impurities in the discharge space, and a fifth step of filling the discharge space with discharge gas.

30 Claims, 21 Drawing Sheets



Assignee: Fujitsu Limited, Kawasaki, Japan

Nagata, Hiroshi et al., "Heat treatment of sealing and exhausting process in plasma display panel manufacturing," Technical Report of Plasma Display, April 1999, pp. 45-51 (English translation of Japanese patent).

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